

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/008616

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F01P7/16

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F01P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/006857 A (VALEO THERMIQUE MOTEURS) 23 January 2003 (2003-01-23)	1,5
A	page 3, columns 24,25 page 3, line 36 - page 4, line 5 column 11, lines 15-22 page 19, line 16 - page 20, line 2 page 14 figure 2	3,4
X	DE 40 33 261 A (FREUDENBERG) 23 April 1992 (1992-04-23)	1
A	column 2, lines 37-42 column 4, lines 9-24 column 4, lines 48-56 column 6, line 26 - line 56 figure 2a	3,4
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*B\* document member of the same patent family

Date of the actual completion of the international search

10 December 2004

Date of mailing of the international search report

17/12/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 776 707 A (PEUGEOT CITROEN) 1 October 1999 (1999-10-01) column 7, line 10 - column 8, line 20; figures -----	1
A	EP 0 965 737 A (SIEMENS CANADA) 22 December 1999 (1999-12-22) paragraph '0022! -----	1
A	EP 0 900 924 A (TOYOTA) 10 March 1999 (1999-03-10) paragraph '0041!; figures -----	1,2
A	US 4 930 455 A (CREED BRIAN T ET AL) 5 June 1990 (1990-06-05) column 1, lines 9-16 column 3, lines 3-23 -----	1,2

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/EP2004/008616

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03006857	A	23-01-2003	FR 2827359 A1 EP 1404995 A1 WO 03006857 A1 JP 2004534177 T US 2004173167 A1	17-01-2003 07-04-2004 23-01-2003 11-11-2004 09-09-2004
DE 4033261	A	23-04-1992	DE 4033261 A1	23-04-1992
FR 2776707	A	01-10-1999	FR 2776707 A1	01-10-1999
EP 0965737	A	22-12-1999	US 6178928 B1 EP 0965737 A2	30-01-2001 22-12-1999
EP 0900924	A	10-03-1999	JP 3374715 B2 JP 11082014 A DE 69818932 D1 DE 69818932 T2 EP 0900924 A2 US 5970927 A	10-02-2003 26-03-1999 20-11-2003 22-07-2004 10-03-1999 26-10-1999
US 4930455	A	05-06-1990	CA 1306395 C	18-08-1992